

# **ABSTRACT**

A honeycomb structure according to an aspect of the present invention includes a segment part including a plurality of first honeycomb segments having a plurality of through holes passing through along an one axis; and a plurality of second honeycomb segments arranged in the periphery of the segment part having a plurality of through holes passing through along the one axis. A cross sectional area of the first honeycomb segments is smaller than the cross sectional area of the second honeycomb segments in the cross section perpendicular to the one axis.